

Abstract of the Disclosure

In a cathode substrate of an FED, spacers lines exclusive for connecting spacers to the ground were necessary besides scan lines and data lines, and a cathode substrate having a three-layer line structure was used in the prior art. The present invention realizes a high-reliable cold cathode type flat panel display which is easily produced and keeps performance that can be obtained by the three-layer line structure, using a cathode substrate having a two-layer line structure.

The line structure of a cathode substrate 10 of an FED is made into a two-layer structure. Hitherto, lines of the first layer are bottom electrodes 11 which constitute electron sources and have been used as scan lines, and top electrodes 13 of the second layer have been used as data lines. In the present invention, however, the bottom electrodes 11 and the top electrodes 13 are changed to data lines and scan lines, respectively. Moreover, some parts of top electrode bus lines connected to the top electrodes 13 are used as spacer lines, too, or the top electrode bus lines 16 are divided so as to be made into spacer lines 16'.